

User Manual to the Environmental Screening Levels (ESL) Surfer Database

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September 2003**

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I About the ESL Surfer Database

-1- What is this database used for?

The Environmental Screening Levels (ESL) Surfer is an Access-based database intended to improve the expediency and clarity of selecting screening levels from the RWQCB document *Screening For Environmental Concerns at Sites With Contaminated Soil and Groundwater* (July 2003 and updates). The screening levels were compiled and developed for the evaluation of potential health and ecological impact concerns posed by the presence of contaminated soil and groundwater. Table cross referencing used to prepare the ESL lookup tables has been programmed into the queries of the ESL Surfer. Additional background information regarding the ESL document can be found at the following webpage:

<http://www.swrcb.ca.gov/rwqcb2/esl.htm>

-2- How is this database structured?

The ESL surfer database uses PC based Microsoft Access™ as the software platform. The file is composed of tables, queries forms and reports. The file has been encoded to prevent any accidental modifications to the data structure and integrity. Therefore its accessibility has been restricted to read, limited data input/ execution. The version you are currently using has been created from data tables provided in the July 2003 Interim Final. The official version you are currently using is: ESL Surfer Sept 03. The software version recommended to run this file is Microsoft Access 2000. A Microsoft Access 98 file is also available for download, however the features available in the 2000 version were not transferred to the earlier version.

-3- What is the future of this database system?

This file will evolve through user feedback inputs. The database design team is planning to add additional features such as searchable soils metals background concentrations based on geology and geography. Bibliographic references, models of exposure might also be provided in the later version. The ESL Surfer database will be revised on a regular basis to reflect updates to the ESL document. Updates will be posted to the RWQCB ESL webpage noted above.

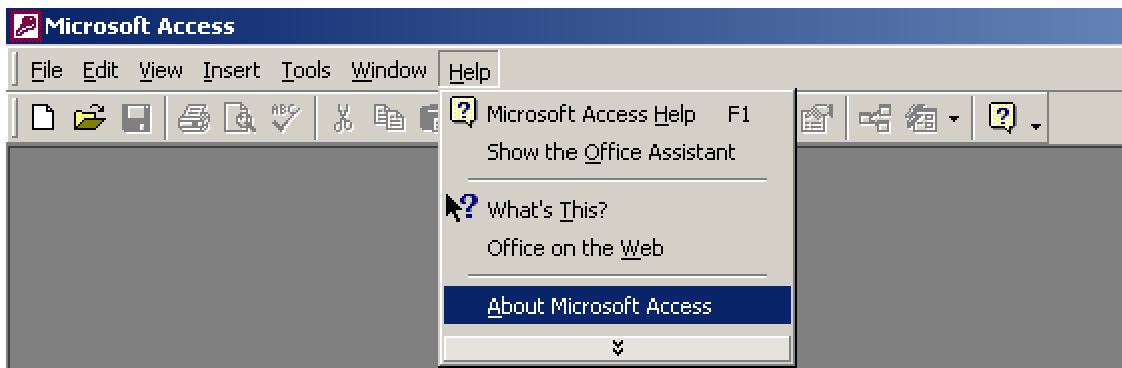
-4- I have problems with the file, what can I do?

If you have a related to downloading and operating the ESL Surfer please contact Laurent Meillier at lm@rb2.swrcb.ca.gov. If you have a problem related to understanding how the screening levels themselves were generated and their use to the environmental risk assessments refer to the ESL document at <http://www.swrcb.ca.gov/rwqcb2/esl.htm> or, if needed, contact Roger Brewer at rdb@rb2.swrcb.ca.gov.

II ESL Installation

-1- Where can I get the file?

A. You will first need to determine which version of Access you are running. You do so by launching the program, highlighting the help menu and choosing the About Microsoft Access option as below:



B. You will then download the appropriate version (Access 2000 or 98) to your directory from the following webpage: <http://www.swrcb.ca.gov/rwqcb2/esl.htm>. You will get a “Read Only” prompt which is a file integrity protection feature once you launch the file. Click “OK”:

III ESLs Surfer Basic Functions

-1- Opening the File: Interface

When you open the file you first see this interface (a form in Access) which is the point at which you enter:

- ➔ Site Name (optional)
- ➔ Site Address (optional)
- ➔ Chemical of interest (pull down menu)
- ➔ Location of Impacted Soil

- ➔ Surface Water Environment
- ➔ Groundwater Beneficial Use
- ➔ Land use: industrial/ commercial or residential
- ➔ Click on **Generate Report with Glossary/ Without Glossary** when done

-2- What can I do with the report?

- ➔ The report is composed of three pages.
- ➔ The values are found within the boxes.
- ➔ These values cannot be edited.
- ➔ You can export the file to your favorite software by right clicking on the open file.
- ➔ You will need to close the report to choose another chemical or change the site characteristics.

**YOUR ENVIRONMENTAL SCREENING LEVELS SEARCH
INPUT FORM**

Site Information

Site Name:

Site Address:

City, State, Zip:

Input Chemical Name

Input the Location of Impacted Soil (ft):

☒ Shallow Soil (3.0 m or 0-10 ft bgs)

☐ Deep Soil (> 3.05 m or >10 ft bgs)

Input Surface Water-Environment:

☐ Freshwater

☐ Marine

☒ Estuary

Input Groundwater Beneficial Use:

☒ Drinking Water

☐ Non-Drinking Water

Input Land Use Scenario:

☒ Residential

☐ Commercial/ Industrial

Generate Report without Glossary

Generate Report without Glossary

Generate Report with Glossary

Generate Report with Glossary

Groundwater Beneficial Use: Drinking Water

Land Use: Residential

The following values were returned for: **BENZENE**

ESLs for Soils

Values Extracted From Table: A-1

Units: mg/kg

Lowest ESL: 4.4E-02

Ceiling Value (Odors, etc.): 5.0E+02

Urban Area Ecotoxicity Criteria: 2.5E+01

Direct Exposure: 1.8E-01

Indoor Air Impacts: 1.8E-01

Groundwater Protection (Soil Leaching): 4.4E-02

Print

Right Click to Export The File

Zoom: 100%

- One Page
- Multiple Pages
- Page Setup...
- Print...
- Save As...
- Export...
- Send To

Scroll to Next Page Here

Access Glossary Here

Page: 1

Ready

Start

ESLs Surfer...

ESLsInputF...

ReportPa...

GlossaryES...

Adobe Phot...